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/ ARRIVAL TIME:

BEGINNING TIME:

LEAVE SITE:

SIGNATURE:

LOADING TIME: (START)

ARRIVAL TIME: \_

LEAVE SITE:

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PAPERWORK DELAY

UNLOADING TIME: (START)

(STOP)

**ENDING TIME:** 

# Material Safety Data Sheet

D007 Recyclable Material

Recycler's Facility Name and Site Address:

# World Resources Company

8113 West Sherman Street Phoenix, Arizona 85043

Tei: 1-502-233-9166 Fax: 602-936-9164

Isaued: 3.13.34

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-124-9300 (Use CHEMTREC Company Code "WORR") For calls from other countries call: 202-483-7616 Collect

# Section 1

PRODUCT - MATERIAL IDENTIFICATION

Environmental Protection Agency (EPA) Waste Classification: D007 Generic Name: Chromium metal bearing sludge Chemical Family: Non-Ferrous metal particulates

Synonym: Metallic Residues From High Frequency Burning Table

DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007) DOT Hazard Class: 9; Packing Group: !!! DOT Identification Number: NA 3077

DOT Emergency Response Guide 31 Applies

#### Section 2

Ingredient: Aluminum	CAS Number: 7429-90-5	Content %: 0-5	ACGIH-TLV 10 mg/m 3	Toxicology: No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m 3	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m 3	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	. 0-10	1.0 mg/m 3	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

# Section 3

Description: Moist, Sandy consistency

Brown to Black colored

Water Content 10-20% by weight

Specific Gravity: 2.0 to 3.0 Solubility: Insoluble in water Density: 100 to 150 lbs/cu/ft

Incompatible Reactivity: Extreme heat sources,

Oxidants

Vapor Pressure: Insignificant Stability: Avoid contact with acids, extreme heat Polymerization: Will not occur

HAZARDOUS INGREDIENTS

Boiling Point: Above 2000°C Melting Point: Above 1000°C

pH: 7.0 to 10.0

PHYSICAL AND REACTIVITY DATA

Odor: Nil

#### Section 4

# AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions Special Firefighting Procedures: Dry Chemical

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA Product Decomposition. . . . (Due to Fire or Explosion): Hydrogen gas, ZnO ( under extreme external heat) Fire Diamond



# Section 5

Listed Carcinogen component: Chromium, Nickel Toxicology: See Sec. 2 (Chromium, Nickel ) Route of Entry: Inhalation and Ingestion

# HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems-blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

# Section 7

# PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

# Section 8

## Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required.

# CONTROL MEASURES

Eye Protection: Safety Glasses recommended. Hand Protection: Gloves recommended.

#### ection 9

# GENERATORS VERIFICATION

This MSDS is provided solely f					
have been taken in the prepara recyclable material listed on the Company Name and Address:	tion of the data contained	for this recyclable	material. To the	pest of my know	ledge this MSDS describes the
recyclable material listed on the	attached Manifest Number	r: 10001	Telephone:	7200) 023 3	00 Date:
Company Name and Address: _	Alaskan Copper	WOLKS 628 Ha	iniora st. S	seattle wa	98134

Signature: -

AZF-WRC 3/94

# **NOTICE**

TO: World Resource Company

8112 West Sherman Street Phoenix, Arizona 85043

From: Alaskan Copper Works

628 South Hanford Street Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

Manifest Number:	98009	
Date of Shipment:	11-3-98	Š

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material	Regulated	Subcategory	Treatability	Treatmer	it Standards
Number	Constituent		Group	CFR Reference	Prohibition Level
D007	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	
		a a			
					1 3 3 4 3

By: Gerald A. Thompson

Alaskan Copper Environmental Assistant

# MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s. (D007)

1996
NORTH AMERICAN
EMERGENCY RESPONSE
GUIDEBOOK

# TAKABY PROMIGUIDE 1761 OF THE 1996 NORTH AMBRICAN BMBRGBNGY HESPONSE GUIDELOOK

# POTENTIAL HAZARDS

# FIRE OR EXPLOSION

BUT WE HAVE THE WAY TO A COMPANY OF A COMPAN

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- · Containers may explode when heated.
- . Some may be transported hot.

#### HEALTH

- · Inhalation of material may be harmful.
- · Contact may cause burns to skin and eyes.
- · Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce imitating, corrosive and/or toxic gases.
- · Runoff from fire control may cause pollution.

#### PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code 'WORR').
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.

## PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- · Structural firefighters' protective clothing will only provide limited protection.

#### **EVACUATION**

#### Fire

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

# **EMERGENCY RESPONSE**

## FIRE

# Small Fires

Dry chemical, CO2, water spray or regular foam.

#### Large Fires:

- · Water spray, log or regular foam.
- · Move containers from fire area if you can do it without risk.
- · Do not scatter spilled material with high pressure water streams.
- Dike fige-control water for later disposal.

#### Fire Involving Tanks:

- . Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank,
- · ALWAYS stay away from the ends of tanks.

# SPILL OR LEAK

- . Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

# Small Dry Spills

- With clean shovel, place material into clean, dry container and cover locsely: move containers from spill area.
   Small Spills
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

  | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

# Large Spills

- · Dike far ahead of liquid soll for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- · Prevent entry into waterways, sewers, basements or confined areas.

#### FIRST AID

- · Move victim to fresh air.
- · Call emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- . In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

AZF WAC 81 8/38

# **Material Safety Data Sheet**

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

**World Resources Company** 

8113 West Sherman Street Phoenix, Arizona 85043

Synonym: Non-ferrous Metal Hydroxide Filter Cake

Tele: 1-602-233-9166 Fax: 602-936-9164

Issued: 8/7/90 Revised: 9/15/93 - DLS

Call CHEMTREC only in the event of emergencies during shipping that Involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-424-9300

(Use Chemtrec Company Code "WORR") For calls from other countries call: 202-483-7616 Collect

# Section 1

# PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge DOT Shipping Name: RO, Hazardous waste, solid, n.o.s., (F006) DOT Hazard Class: 9 Packaging Group III

Environmental Protection Agency (EPA) Waste Classification: F006 Chemical Family: Metallic (Hydroxide) Precipitates

DOT Identification Number: NA 3077 DOT Emergency Response Guide 31 Applies

# Section 2

#### HAZARDOUS INGREDIENTS Content %: ACGIH-TLV Ingredient: Toxicology: (rat, oral) CAS Number: 0-30 Copper Hydroxide 20427-59-2 1.0 mg/mg (Dust) LD-50 1,000 mg/kg 0-15 12054-48-7 Nickel Hydroxide 1.0 mg/m3 (Dust) LD-50 1,500 mg/kg Calcium Hydroxide 1305-62-0 0-15 5.0 mg/m3 (Dust) ID-50 7,340 mg/kg 0-10 RRRSS-SAO Diatomaceous Earth 6.0 mg/m3 (Dust) 3,160 mg/kg LD-50

# Section 3

Description: Solid, Clay-like Clumps, Gray/Green to Brown.

Water Content 30-80%

Specific Gravity: 1 to 1.4 Solubility: Insoluble in water

# Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known Vapor Pressure: Insignificant

Stability: Avoid contact with acids Polymerization: Will not occur

EVERY CHECK TO SEE

# PHYSICAL AND REACTIVITY DATA

Boiling Point: Above 2600°C Melting Point: Above 1800°C

pH: 7.0 to 10.0 Odor: Nil

# Section 4

#### Oxidation: Non-oxidizing Flashpoint: Nonflammable Special Firefighting Procedures: None

Product Decomposition. . . . . (Due to Fire or Explosion): None

# FIRE AND EXPLOSION DATA

Explosive: Non-explosive Fire Diamond



TOXICITY

# Section 5

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

#### HEALTH EFFECTS AND FIRST AID Section 6

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms. Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconcious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

# PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The sourpment should include eye protection, respirator and gloves.

Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to Storage: avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

# Section 8"

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required.

# CONTROL MEASURES

Eye Protection: Safety Glasses recommended, Rand Protection: Gloves recommended.

# Section 9

# GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: \(\frac{\gamma\_{000}}{\text{Works}}\) ave south sixth

Senature:

Company Name and Address: 34

AZF-WRC 9/93

# **MATERIAL IDENTIFICATION**

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (F006)

1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

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(Underlined extrapplies directly to the material listed above)

# POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- . Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

#### HEALTH

- · Inhalation of material may be harmful.
- · Contact may cause bums to skin and eyes.
- . Inhalation of Asbestos dust may have a damaging effect on the lungs.
- · Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

#### **PUBLIC SAFETY**

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORR").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.

#### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

## **EVACUATION**

#### Fire

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

#### **EMERGENCY RESPONSE**

# FIRE

# Small Fires

• Dry chemical, CO2, water spray or regular foam.

# Large Fires:

- Water spray fog or regular foam.
- Move containers from fire area if you can do it without risk.
- · Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

# Fire Involving Tanks:

- · Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

# SPILL OR LEAK

- . Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

## Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.
   Small Spills
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

# Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

## FIRST AID

- · Move victim to fresh air.
- · Call emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- · Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

AZF WRC 9/18/96

# NOTICE

TO: World Resource Company

8112 West Sherman Street Phoenix, Arizona 85043

From: Alaskan Copper Works

628 South Hanford Street Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

Manifest Number:	98009	
Date of Shipment:	11-3-98	

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material	Regulated	Subcategory	Treatability	Treatmen	it Standards
Number	Constituent		Group	CFR Reference	Prohibition Level
F006	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	
				,	

By: Gerald A. Thompson

Alaskan Copper Environmental Assistant



# GENERAL INTERNAL PURCHASE REQUISITION

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# GENERAL INTERNAL PURCHASE REQUISITION

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